

Claim 17, line 6, delete "including" and substitute therefor --comprising--.

Claim 40, line 1, delete "mobile terminal" and substitute therefor --base station--.

Claim 41, line 1, delete "mobile terminal" and substitute therefor --base station--.

42. (Amended) A mobile communications system receiver reducing interference between transmissions of wanted signals and unwanted interfering signals, comprising:

a 3 [a receiver comprising] a control adapted to process a group of currently received signal samples to determine a corresponding current set of unquantized wanted data symbols and an interfering waveform representative of a sum of other unwanted interfering data symbols by subtracting an amount of a previously decoded set of quantized wanted symbols and a previously determined interfering waveform; and a quantizer adapted to quantize said determined current set of unquantized wanted symbols to obtain corresponding quantized symbols.

2 43. (Amended) The mobile communications system receiver of claim 42 [wherein said receiver] further [comprises] comprising a channel estimator for determining a set of channel coefficients characterizing multipath propagation.

2 44. (Amended) The mobile communications system receiver of claim 43 [wherein said receiver] further [comprises] comprising a filter for filtering said received signal samples based on said channel coefficients.

45. (Amended) The mobile communications system receiver of claim 44 wherein said  
2 filter comprises a time-reversed conjugate channel filter.

α 3  
46. (Amended) The mobile communications system receiver of claim 42 wherein said  
2 current set of unquantized wanted symbols includes only one wanted symbol.

47. (Amended) The mobile communications system receiver of claim 46 wherein said  
2 control combines a pair of successively received signal samples in a first combining way to obtain said  
current unquantized symbol and combines the same pair of samples in a second combining way to  
4 obtain a value of said interfering waveform.

48. (Amended) The mobile communications system receiver of claim 45 wherein said  
2 channel estimator determines said channel coefficients by correlating said received signal samples with  
known ones of said data symbols.

49. (Amended) The mobile communications system receiver of claim 48 wherein said  
2 known symbols [include] comprise previously decoded symbols.

50. (Amended) The mobile communications system receiver of claim 42 wherein said  
2 receiver comprises a mobile terminal receiver.